ABSTRACT

A distance measuring instrument having a sighting device is disclosed, which includes a transmitter for emitting an optical radiation, a receiving lens for the optical measurement radiation remitted or scattered by an object being measured, a receiver, located behind the receiving lens, for converting the optical radiation into electrical measurement signals, and a signal processing system for comparing the measurement signals with reference signals in order to determine from them the distance from the object being measured and to make the result available to the user. The sighting device includes a photoelectric picture-taking system, which is connected to an electronic display device, and an evaluation unit for forming the differential value for the pictures taken. The photoelectric picture-taking system of the sighting device and the electronic display device are disposed in a common housing which is equipped with a separate viewfinder lens for the photoelectric picture- taking system.